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(54) Title: FACL4 AND MUTATION THEREOF ON X-LINKED MENTAL RETARDATION SYNDROME

(57) Abstract: A nucleic acid comprising at least one fragment of the human FACL4 gene or FACL4 protein or functional portions thereof for diagnostic or therapeutic purposes applied to syndromes associated with mental retardation is described. Appropriate diagnostic kits are also described.

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INTERNATIONAL SEARCH REPORT

International Application No

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A. CLASSIFICATION OF SUBJECT MATTER
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B. FIELDS SEARCHED

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, WPI Data, PAJ, MEDLINE, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02 16575 A (UNIV UTAH RES FOUND ;CAO YANG (US); PRESCOTT STEPHEN (US)) 28 February 2002 (2002-02-28) page 11, line 22-25; claims 25-28; example 1	1, 3-6, 9
X	CAO Y ET AL: "CLONING, EXPRESSION, AND CHROMOSOMAL LOCALIZATION OF HUMAN LONG-CHAIN FATTY ACID-COA LIGASE 4 (FACL4)" GENOMICS, ACADEMIC PRESS, SAN DIEGO, US, vol. 49, 1998, pages 327-330, XP002932974 ISSN: 0888-7543	3-8
Y	the whole document	11-13

☒ Further documents are listed in the continuation of box C.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>PICCINI M ET AL: "FACL4, a New Gene Encoding Long-Chain Acyl-CoA Synthetase 4, Is Deleted in a Family with Alport Syndrome, Elliptocytosis, and Mental Retardation" GENOMICS, ACADEMIC PRESS, SAN DIEGO, US, vol. 47, no. 3, 1 February 1998 (1998-02-01), pages 350-358, XP002257224 ISSN: 0888-7543 cited in the application abstract Results figure 3</p>	3-8
X	<p>CAO YANG ET AL: "Intracellular unesterified arachidonic acid signals apoptosis" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES, vol. 97, no. 21, 10 October 2000 (2000-10-10), pages 11280-11285, XP002257225 October 10, 2000 ISSN: 0027-8424 cited in the application</p>	3-6
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Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WILSON D B ET AL: "DISCOVERY OF AN ARACHIDONYL COENZYME A SYNTHETASE IN HUMAN PLATELETS" JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 257, no. 7, 1982, pages 3510-3515, XP002932976 ISSN: 0021-9258	13
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P,X	LONGO I ET AL: "A third MRX family (MRX68) is the result of mutation in the long chain fatty acid-CoA ligase 4 (FACL4) gene: Proposal of a rapid enzymatic assay for screening mentally retarded patients." JOURNAL OF MEDICAL GENETICS, vol. 40, no. 1, January 2003 (2003-01), pages 11-17, XP002257230 ISSN: 0022-2593 the whole document -----	1-13

INTERNATIONAL SEARCH REPORT

patent family members

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